

**BY ORDER OF THE COMMANDER  
TWENTY-FOURTH AIR FORCE**



**AIR FORCE INSTRUCTION 33-150**

**24 AF  
Supplement**

**3 APRIL 2013**

***Communications and Information***

**MANAGEMENT OF CYBERSPACE  
SUPPORT ACTIVITIES**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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OPR: 38 CEIG/TA

Certified by: 24 AF/CC  
(Maj Gen Suzanne Vautrinot)

Pages: 8

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This instruction implements Air Force Policy Directive (AFPD) 33-1, *Cyberspace Support* and supplements AFI 33-150, *Management of Cyberspace Activities*. This supplement defines the services provided by 38th Cyberspace Engineering Installation Group (38 CEIG) to the Twenty-Fourth Air Force (24 AF) and its subordinate organizations in support of the AF direction to transform to an enterprise-wide, net-centric, knowledge-based operational environment outlined in AFPD 33-1, *Cyberspace Support*. It further defines 38 CEIG support activities documented in AFI 33-150. This supplement does not apply to the Air National Guard (ANG) and the Air Force Reserve Command (AFRC) and their units. Use this supplement in conjunction with Methods and Procedures Technical Order (TO) 33D-2002, *Engineering Installation and Cyberspace Readiness Activities Management* and TO 33D-3003, *Managing the Cyberspace Infrastructure with the Cyberspace Infrastructure Planning System (CIPS)*. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command. This supplement defines how the 38 CEIG provides support to the 24 AF Air Force Network (AFNet) operators. It specifically defines how the 38 CEIG will utilize Cyberspace Systems Integrator (CSI) to support the 24 AF Operators. For additional information on Engineering Installation Services (EI), reference TO-00-33D-2002.

## **1. Roles and Responsibilities.**

**1.1. 38 CEIG Operational Engineering Services.** Paragraphs 1.1.1 through 1.1.3.5 describe three key services, along with some additional services, provided by the 38 CEIG: Operational Engineering Support, Special Projects, and Evaluation of AFNet Technical Data.

**1.1.1. Operational Engineering Support.** 38 CEIG will assign a CSI to work directly with functional experts at the 24 AF and 67th Network Warfare Wing (67 NWW) operators and defenders. The CSI will:

**1.1.1.1. (Added)** Travel to and conduct regular visits with each customer.

**1.1.1.2. (Added)** Assist and provide recommendations in the development, review, and approval of network architecture and designs.

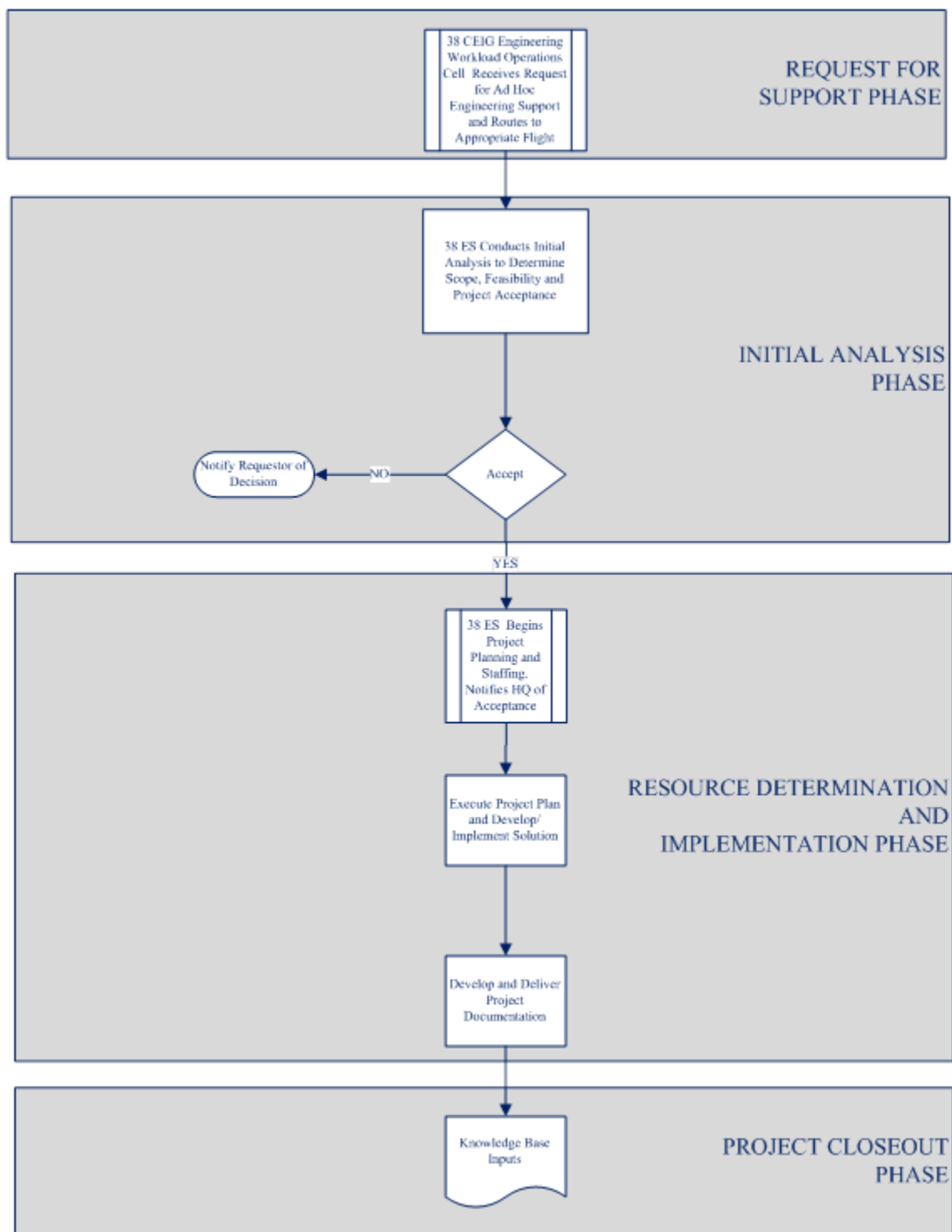
**1.1.1.3. (Added)** Identify Tier 1, 2, and 3 terrestrial infrastructure deviations for migration to approved AFNET architectures and standard solutions.

**1.1.1.4. (Added)** Develop strategies for Tier 1, 2, and 3 system implementation plans; specify installation requirements in accordance with approved AF Cyberspace enterprise architecture and standard solutions; and provide appropriate acquisition documentation.

**1.1.1.5. (Added)** Attend key design meetings and provide engineering expertise necessary to understand, interpret, and prepare cyber requirements documents supporting AFNet operations.

**1.1.1.6. (Added)** Participate in the AFNet operations requirements review process. Review program documentation and make recommendations to facilitate the successful integration of new systems.

**1.1.2. Special Projects.** 38 CEIG will provide support for requested engineering services (from the organizations outlined in this supplement) that are not part of the normal services and requirements process outlined in TO 00-33D-2002 (see Figure 1).

**Figure 1. Special Projects Process.**

1.1.2.1. Requests. Organizations may request engineering support from 38 CEIG by submitting a request to 38 ES/Engineering Workload Operations Cell (Formerly known as Workload

Control) at [38ES.EWOC@tinker.af.mil](mailto:38ES.EWOC@tinker.af.mil) or via SIPRNet at [38ceg.EWOC@afmc.af.mil](mailto:38ceg.EWOC@afmc.af.mil). Requests can also be made through the organizational CSI or utilizing the Work Order Management System (WOMS) in CIPS (reference TO 00-33D-3003).

1.1.2.2. Initial Analysis. 38 ES will conduct an initial analysis of the request to determine scope/feasibility of project, and provide an acceptance/non-acceptance recommendation.

1.1.2.3. Resource Determination and Project Planning/Execution Phase. Upon project acceptance, 38 ES will begin project staffing/planning, technical solution development and implementation as appropriate. Additionally, 38 ES will notify the 624th Operations Center (624 OC) and the 688th Information Operations Wing (688 IOW) of the project acceptance. All cyberspace infrastructure unclassified project information will be documented in CIPS per TO 00-33D-3003.

1.1.2.4. Finalized Documentation. Upon completion of the special project, 38 ES will provide final documentation to the customer and make inputs to the Knowledge Base Repository once developed by 690th Network Support Group (690 NSG) (see paragraph 1.2.4).

1.1.3. Evaluation of AFNet Technical Network Data. The 38 CEIG shall conduct technical analysis of Cyber Vulnerability Assessments, Network Health Assessments, Air Force Infrastructure Assessments (AFIA), and other engineering data supplied by AFNet operators and personnel in order to identify recurring or systemic issues for engineering/technical correction or remediation (see Figure 2). In addition, 38 CEIG will:

1.1.3.1. Conduct analysis of technical data, focusing on systemic issues affecting the defensive posture of the AFNet. Use the results of the analysis to develop and deliver standard technical solutions, costing estimates, recommended prioritization, and/or remediation strategies/course of actions for hardening the AFNet (see Figure 2).

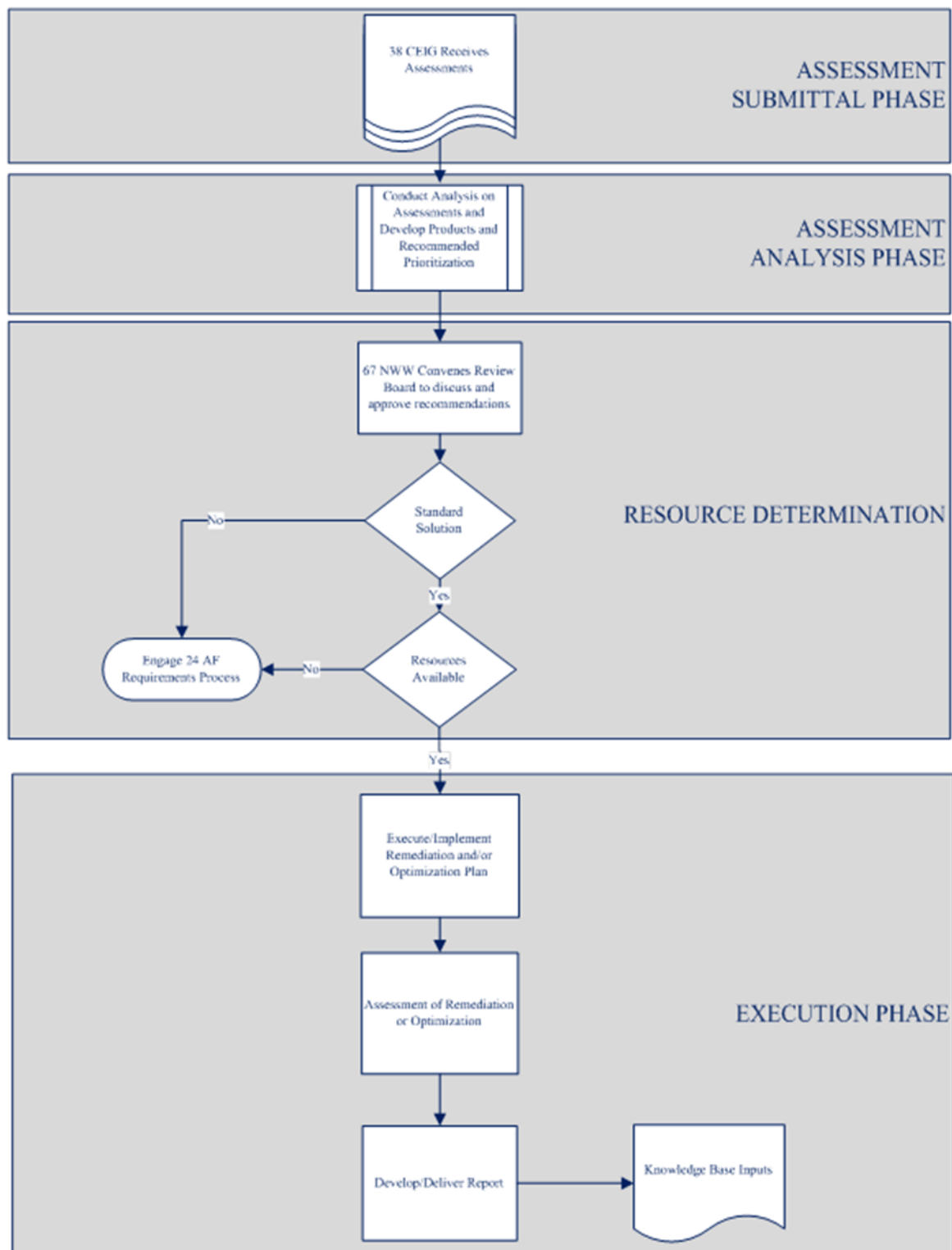
1.1.3.2. Participate on the 67 NWW review board to discuss execution of network assessment analyses and recommendations as shown in Figure 2. At a minimum, participants should include 24 AF, 688 IOW, and 67 NWW.

1.1.3.3. Use existing 38 CEIG processes to execute remediation and optimization plans approved by the board that require 38 CEIG resources (see Figure 2).

1.1.3.4. Develop and deliver Project Completion Reports and provide lessons learned for Knowledge Base repository (see Figure 2).

1.1.3.5. Coordinate with 690 NSG and 318th Information Operations Group to collate and submit semi-annual reports to 688 IOW and 67 NWW describing trends found from the network assessments analysis.

Figure 2. Technical Data Evaluation Process.



1.1.4. General Engineering Services. 38 CEIG will provide cyberspace infrastructure technical consultation and support as defined below:

1.1.4.1. Lead teams to conduct network health assessments across the functional disciplines of network management, network administration, and information protection to optimize network performance; identify and remediate vulnerabilities and strengthen network security.

1.1.4.2. Provide network troubleshooting teams to 690 NSG, 561st Network Operations Squadron, 83rd Network Operations Squadron, 26th Network Operations Squadron, and their detachments, as required. Teams will conduct root cause analysis of network issues, recommend corrective actions, and implement on-site, if feasible.

1.1.4.3. Develop, publish, and maintain Cyberspace infrastructure standards (i.e., Base Area Network and other Functional Specifications) to ensure compliance with AFNet architectures and to field integrated and standard solutions.

1.1.4.4. Translate 24 AF requirements into achievable technical requirements for the network operations of the enterprise (Tier 1), functional/mission systems (Tier 2), and Main Operating Bases (Tier 3).

1.1.4.5. Develop standardized solution recommendations and/or alternatives for common cyberspace/communication systems and Tier 1, 2, and 3 network architecture components.

1.1.4.6. Review and approve implementation efforts (e.g., Statements of Objectives/Statements of Work) to ensure Configuration Management deliverables provided by the implementation activity are specified correctly in contract and/or implementation documentation.

1.1.4.7. Review and approve implementation efforts to ensure inclusion of Test and Evaluation (T&E) requirements in contract and/or implementation documentation and ensure the satisfactory fulfillment of the T&E requirements prior to Project close-out per TO 33D-3003 with the AFTO Form 747, *Cyberspace Infrastructure System Acceptance* process.

1.1.4.8. Assess and support integration of tools and applications (not considered in the scope of Electronic System Center) onto the AFNet.

1.1.4.9. Supply results of Air Force Infrastructure Assessment to 'recurring analysis process' described in Paragraph 1.1.3.

1.2. **690 NSG.** Provides integrated network operations for US Cyber Command, 24 AF, and 67 NWW. The Group delivers AF Network Operations, network management, information assurance, Enterprise IT services, and Enterprise Service Desk support to establish the cyberspace domain for AF cyberspace operations and ensures AF cyberspace superiority. 690 NSG operates and maintains the AFNet Core Services, operates and maintains MAJCOM legacy networks, migrates AF users from legacy networks into the AFNet, and operates and maintains Lackland Air Force Base classified networks. 690 NSG and subordinate organizations will:

1.2.2. Support the development and staffing of various cyber Orders, when appropriate (i.e., provide data as required by 38 CEIG and help ensure they are delivered in a timely manner to accomplish tasks).

1.2.3. Provide adequate office workspace for visiting CSI.

1.2.4. Develop and maintain knowledge base repository for research results, reports, problem resolutions, etc. (See Paragraph 1.1.2.4).

1.3. Request 38 CEIG support utilizing one of the following three methods:

1.3.1. Utilize the established CIPS process.

1.3.2. Send request directly to the 38 ES/Engineering Workload Operations Cell at [38ES.EWOC@tinker.af.mil](mailto:38ES.EWOC@tinker.af.mil) or [38ceg.EWOC@afmc.af.smil.mil](mailto:38ceg.EWOC@afmc.af.smil.mil).

1.3.3. Work directly with their assigned CSI for the purposes of entering a request via email or WOMS in CIPS.

SUZANNE M. VAUTRINOT, Major General,  
USAF  
Commander

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFI 33-150, *Management of Cyberspace Support Activities*, 30 November 2011

AFPD 33-1, *Cyberspace Support*, 09 August 2012

MPTO-00-33D-2002, *Engineering Installation and Cyberspace Readiness Activities Management*, 16 July 2012

MPTO 33D-3003, *Managing the Cyberspace Infrastructure with the Cyberspace Infrastructure Planning System (CIPS)*, 15 February 2012

***Prescribed Forms***

**AFTO Form 747**, *Cyberspace Infrastructure System Acceptance*

***Adopted Forms***

**AF Form 847**, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AFCYBER**—Air Force Cyber

**AFIA**—Air Force Infrastructure Assessment

**AFNet**—Air Force Network

**AFNetOps**—Air Force Network Operations

**CIPS**—Cyberspace Infrastructure Planning System

**CSI**—Cyberspace Systems Integrator

**WOMS**—Work Order Management System